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What is claimed is:

1. An oral care composition comprising

(a) an effective amount of a source of an azacycloalkane-2,2-diphosphonate anion as an anticalculus agent;

(b) an effective amount of 5-chloro-2-(2,4-dichlorophenoxy) phenol; and

(c) a toxicologically acceptable oral carrier.

2. A composition according to claim 1 wherein the anticalculus agent is a salt of 1-azacycloheptylidene-2,2-diphosphonic acid.

3. A composition according to claim 1 which additionally comprises a source of an effective amount of fluoride ion.

4. A composition according to claim 2 which additionally comprises a source of an effective amount of fluoride ion.

5. A method of preventing the accumulation of calculus and plaque on dental enamel comprising contacting said dental enamel with a composition according to claim 1.

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6. A method of preventing the accumulation of calculus and plaque on dental enamel comprising contacting said dental enamel with a composition according to claim 2.

7. A method of preventing the accumulation of calculus and plaque on dental enamel comprising contacting said dental enamel with a composition according to claim 3.

8. A method of preventing the accumulation of calculus and plaque on dental enamel comprising contacting said dental enamel with a composition according to claim 4.

9. An oral care composition according to claim 1 wherein said composition additionally contains a synthetic anionic polymeric polycarboxylate of a molecular weight in the range of about 5,000 to 2,000,000 in an amount effective to increase anticalculus action of the azacycloalkane phosphonate anion.

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